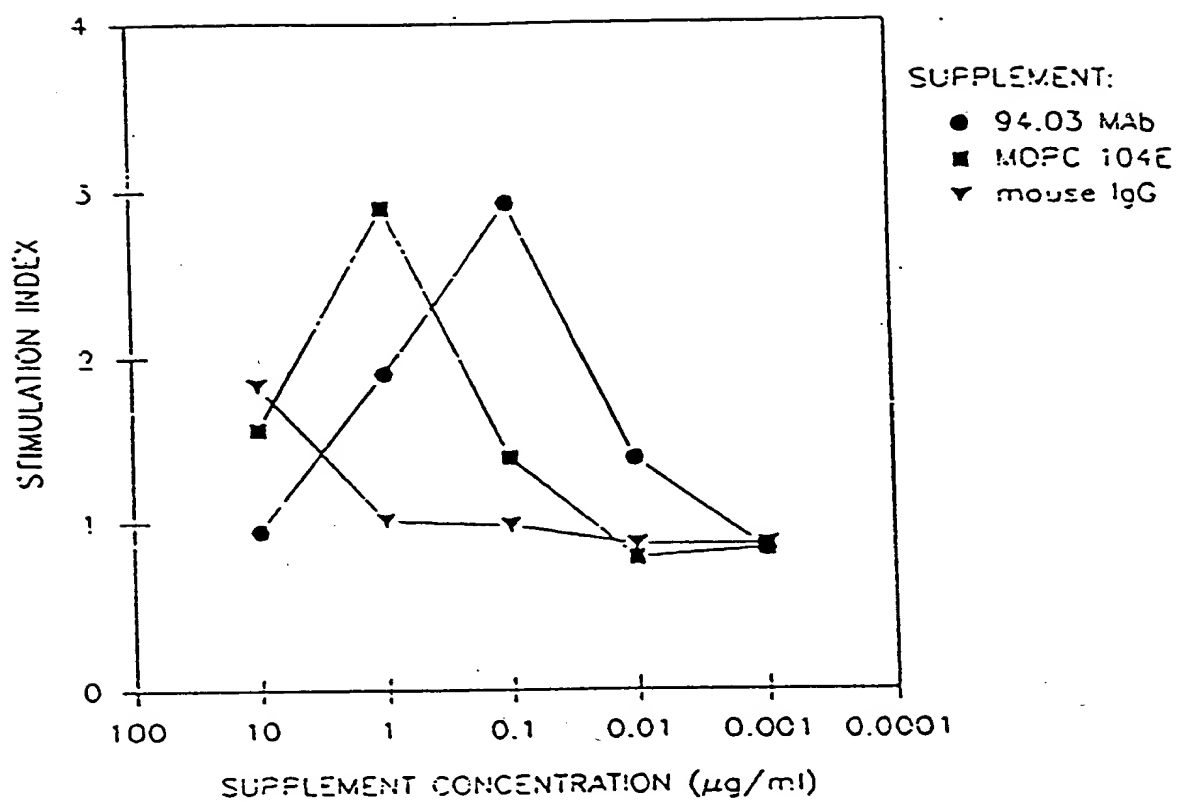




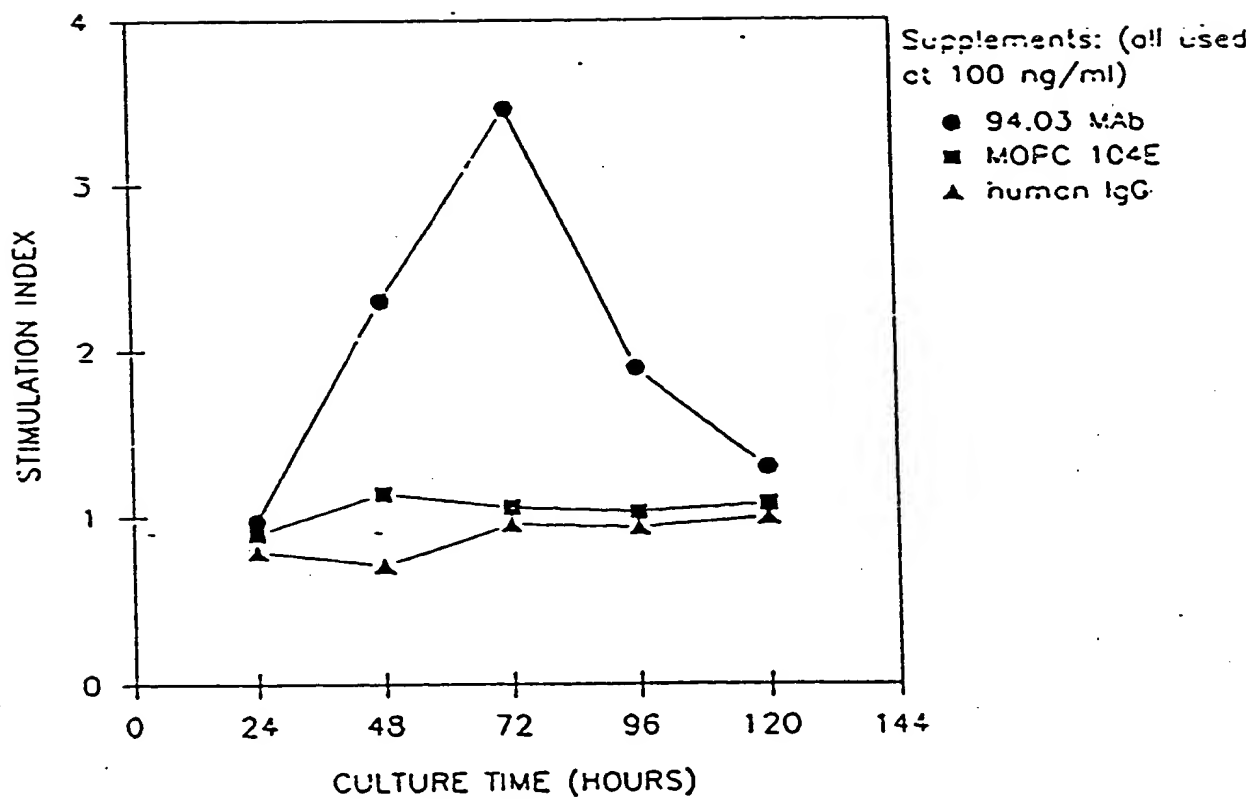
Figure 1



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Figure 2



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Fig. 3A

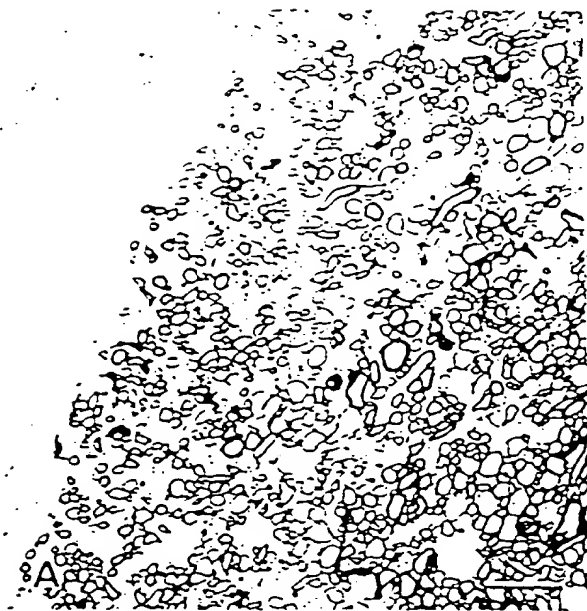


Fig. 3B

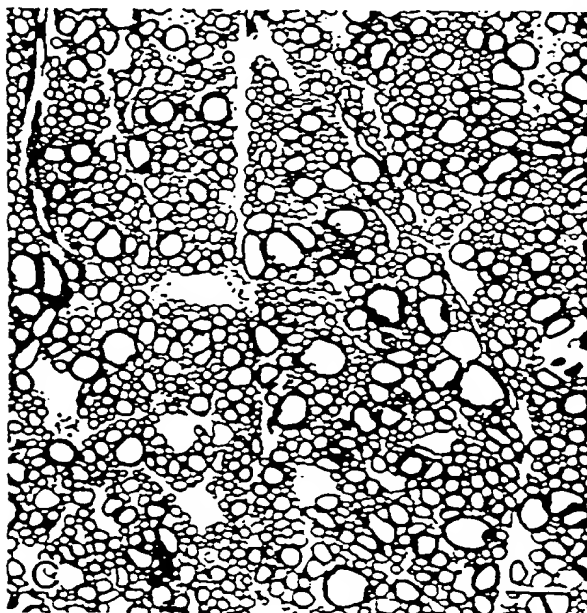


Fig. 3C

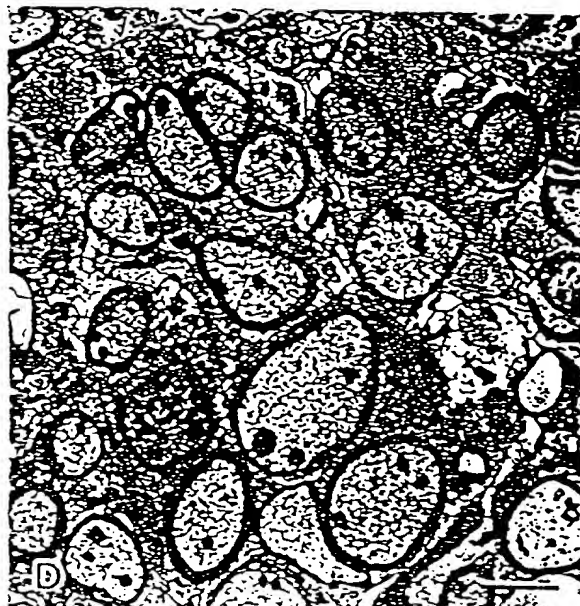
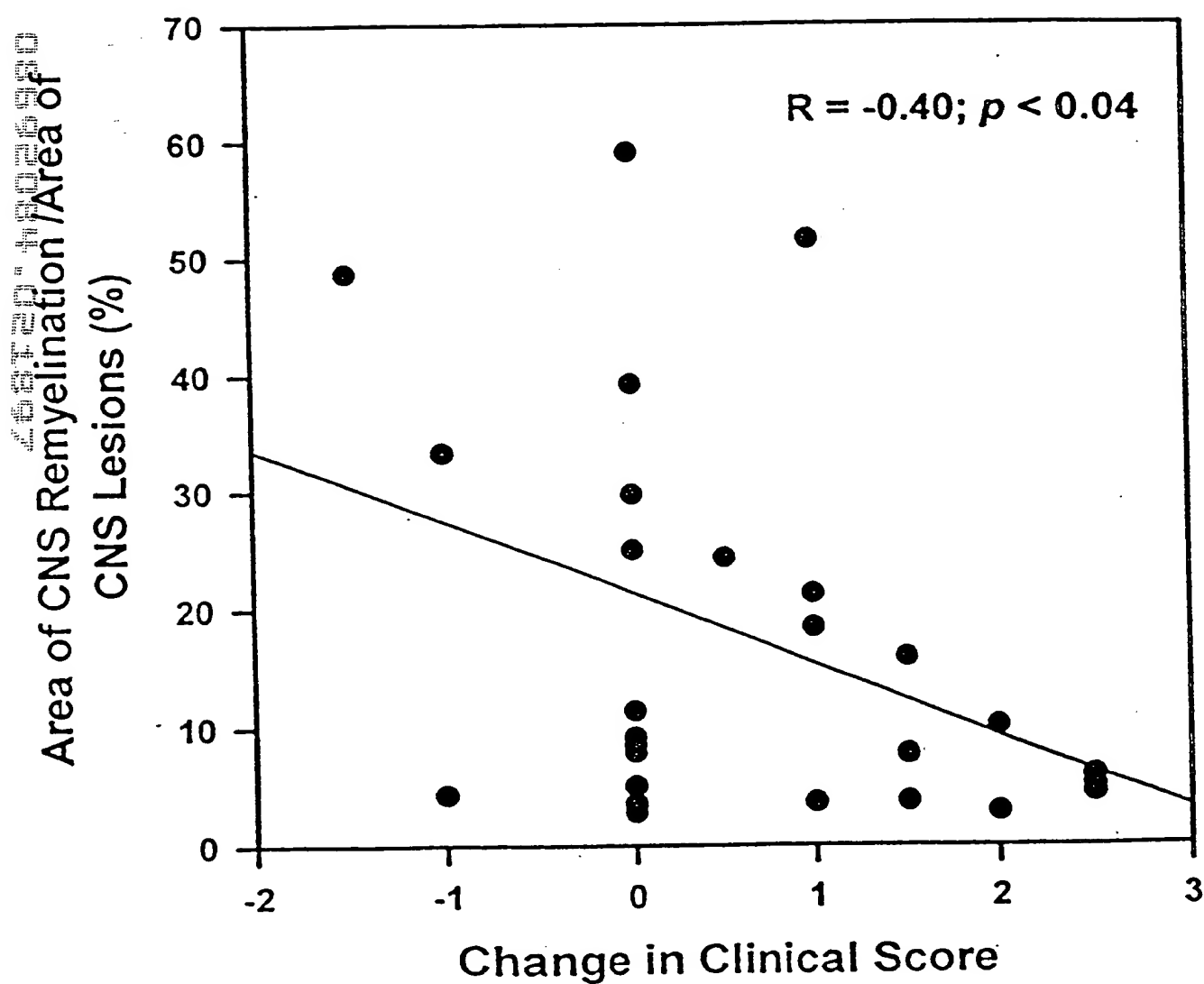


Fig. 3D

08/692084-0189

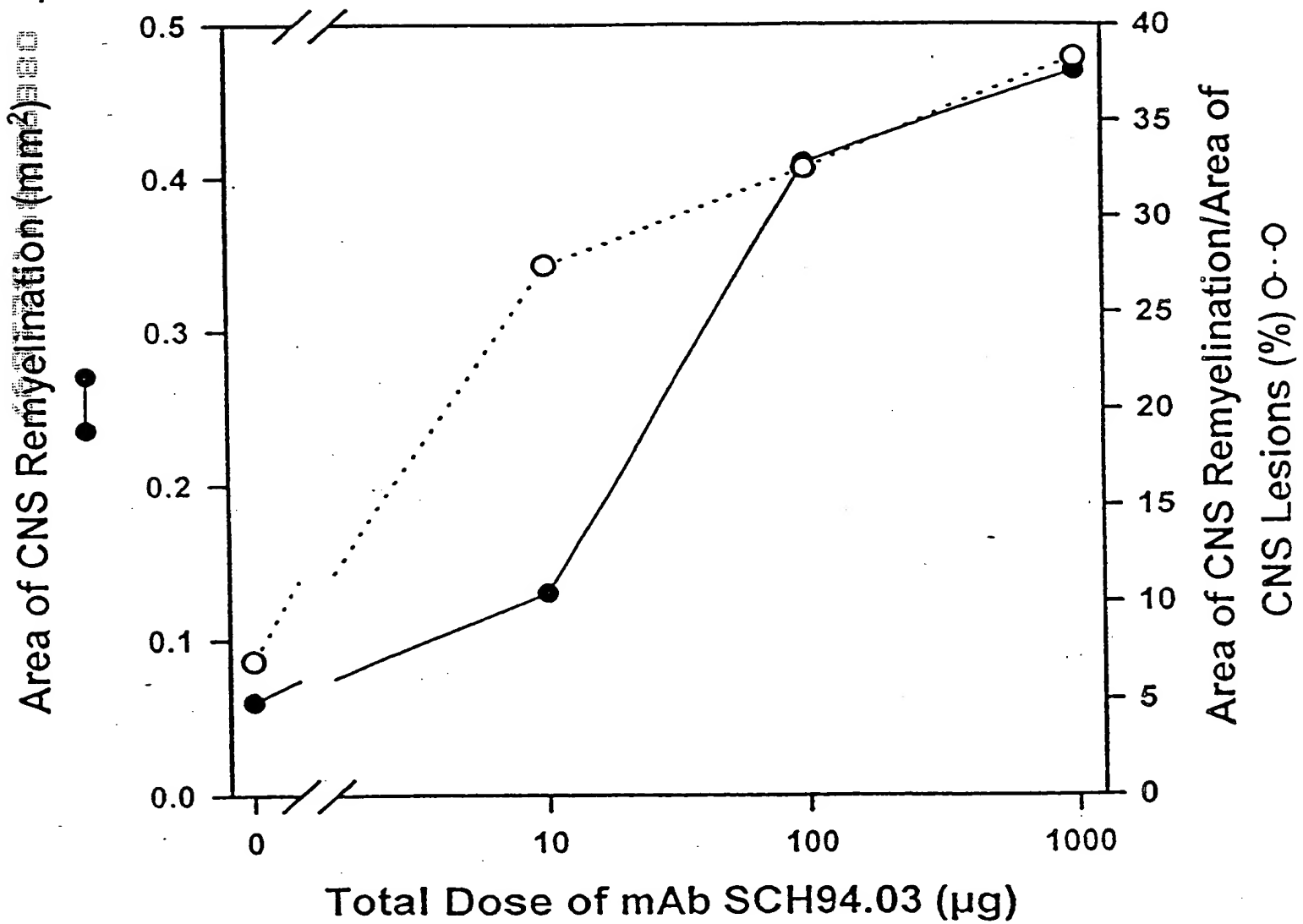
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Figure 4



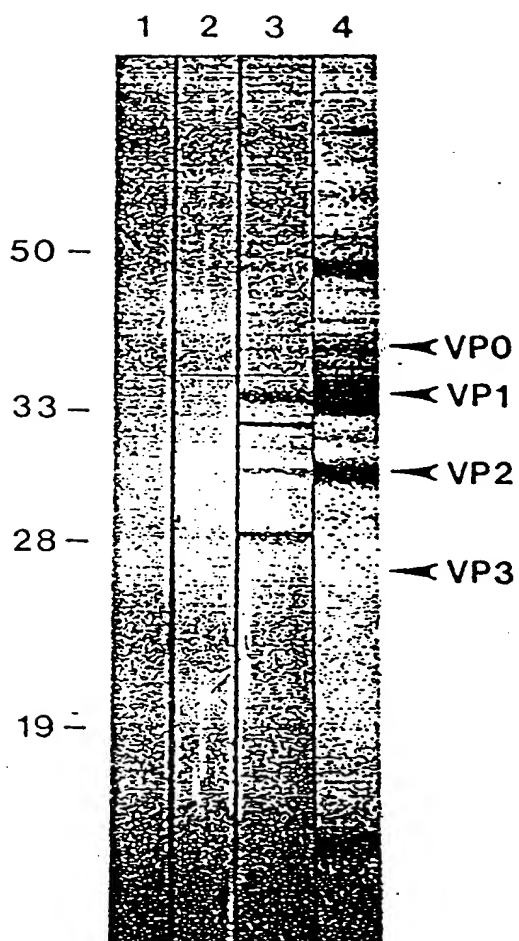
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Figure 5



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Figure 6



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Fig. 7A

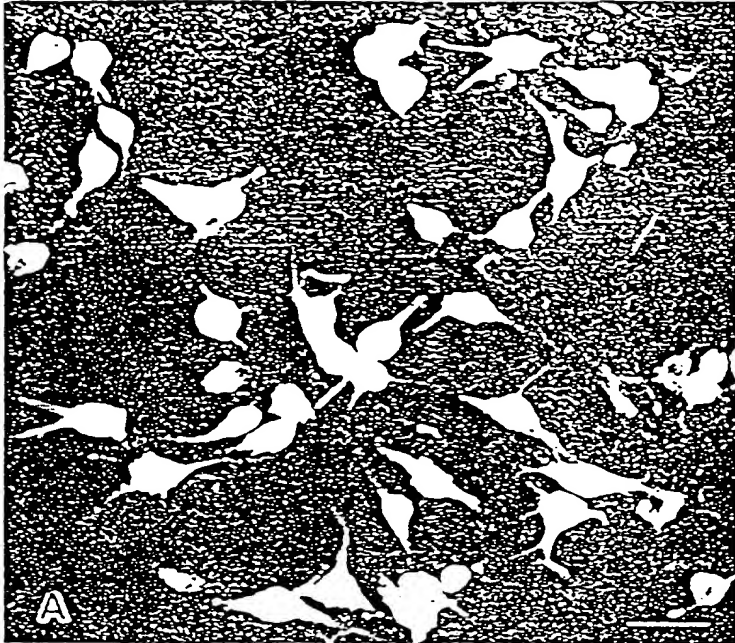


Fig. 7B

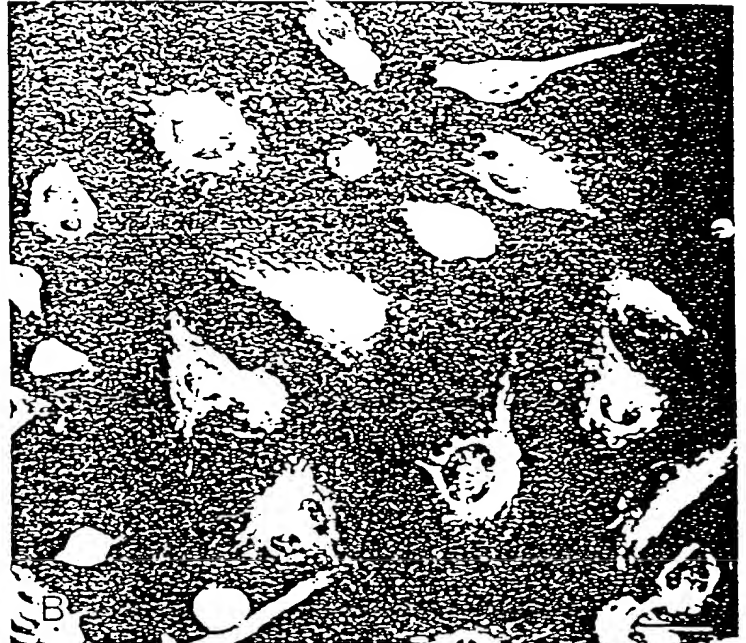


Fig. 7C

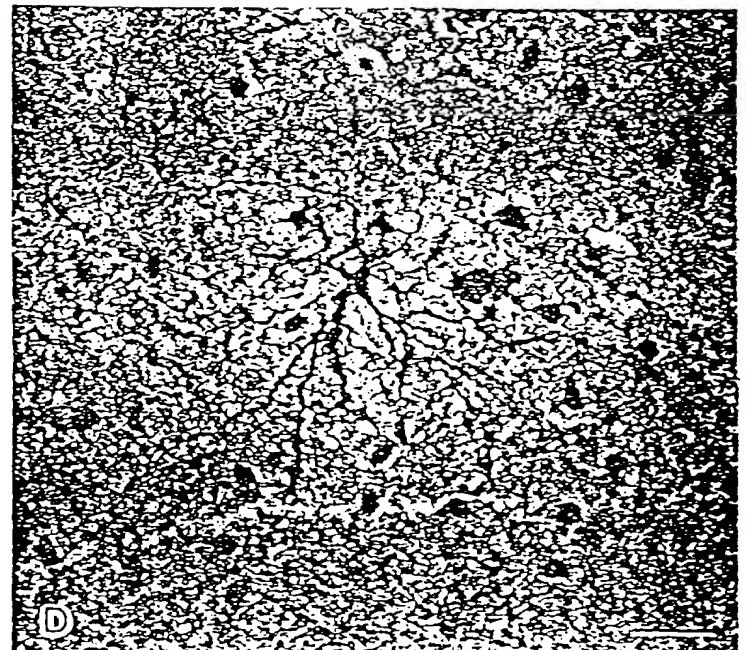


Fig. 7D

## ELISA with SCH94.03 and protein antigens

Fig. 8A

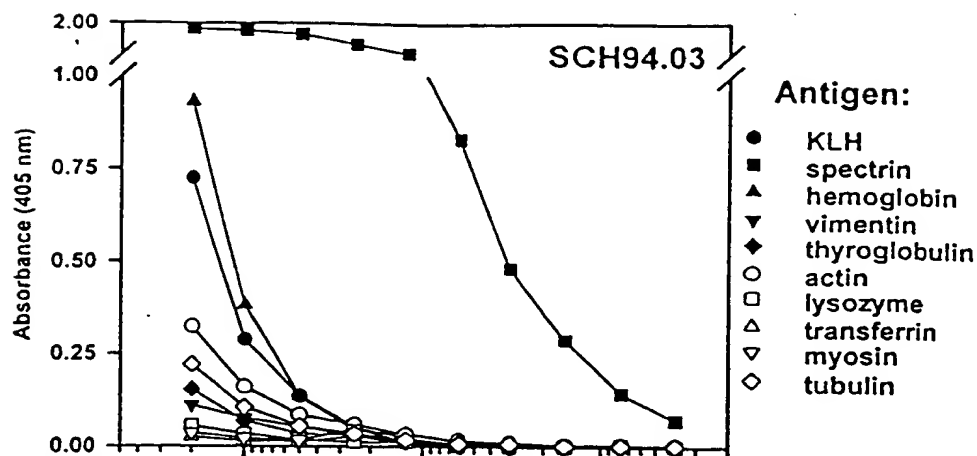


Fig. 8B

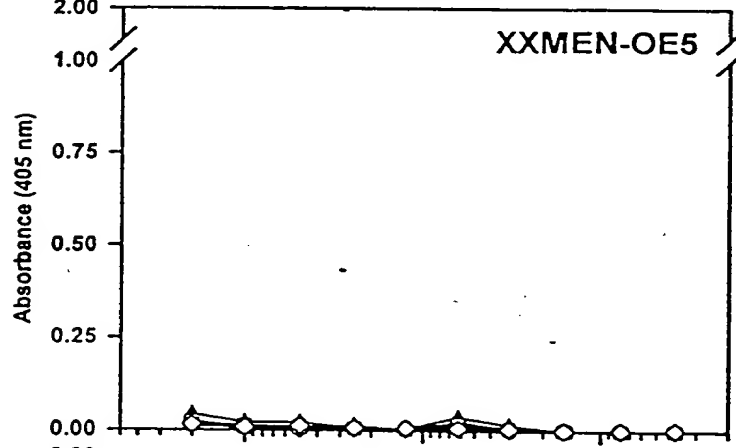
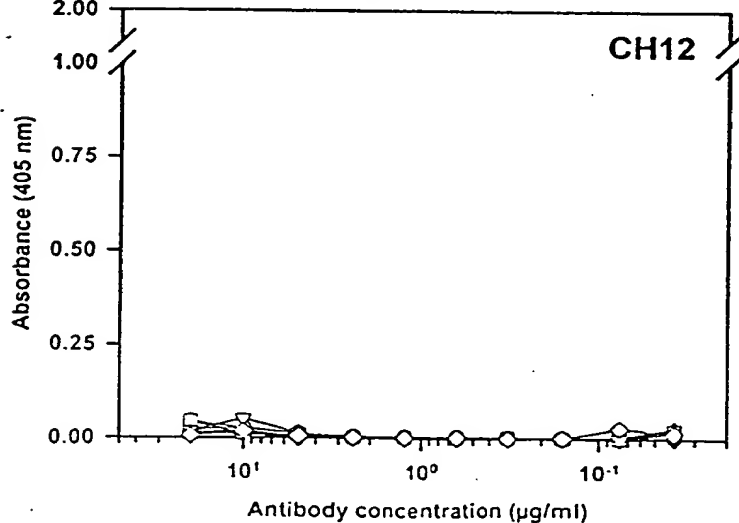
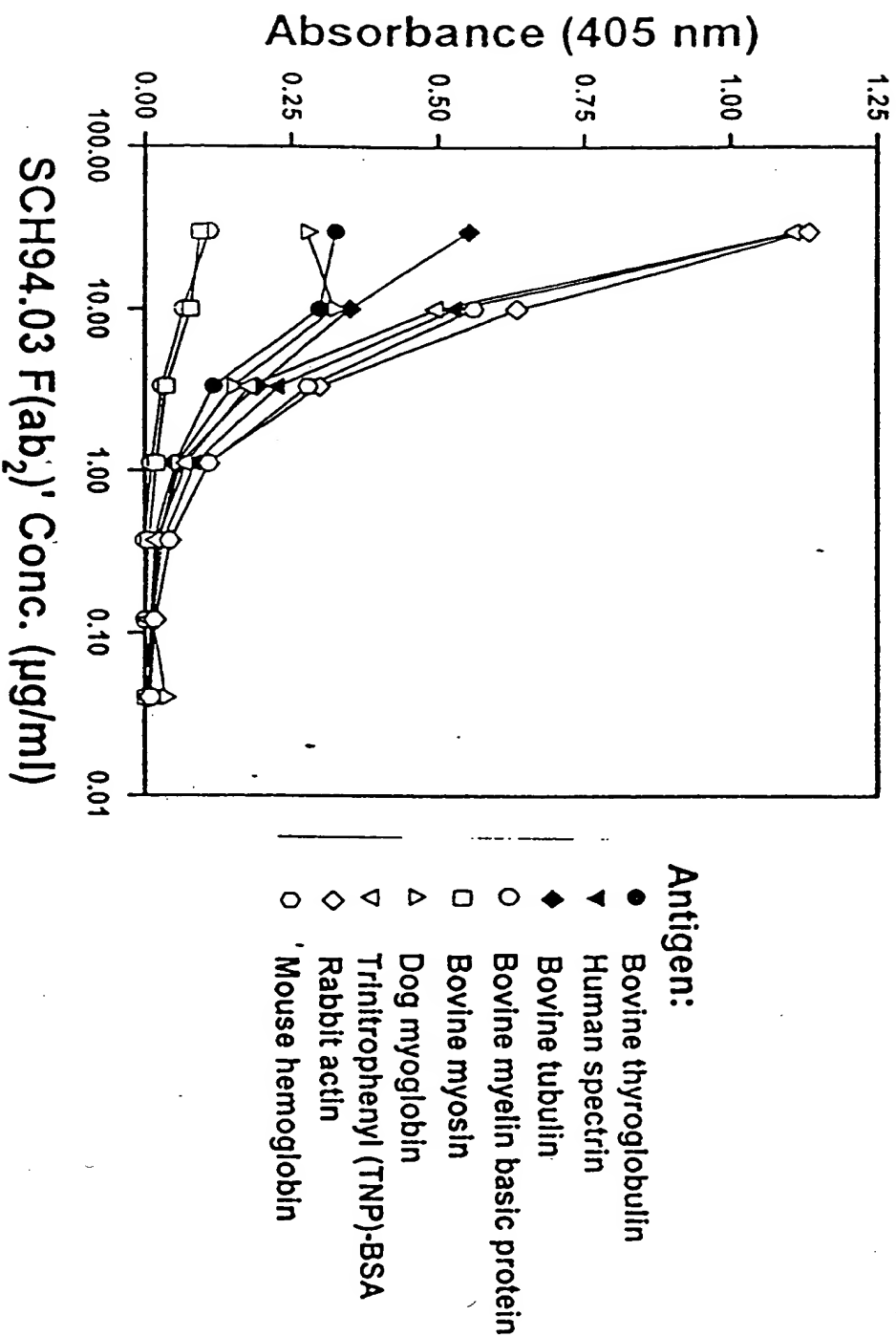


Fig. 8C



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Figure 9

ELISA with SCH94.03 F(ab<sub>2</sub>)' fragments

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## ELISA with SCH94.03 and chemical haptens

Fig. 10A

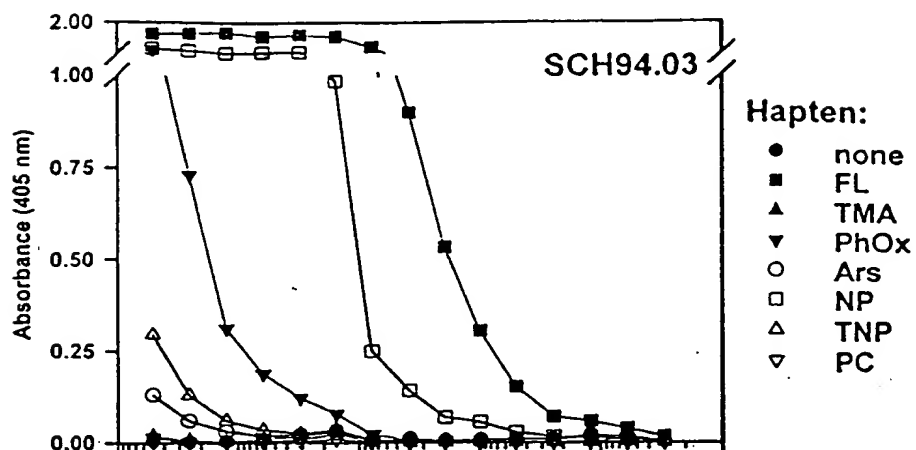


Fig. 10B

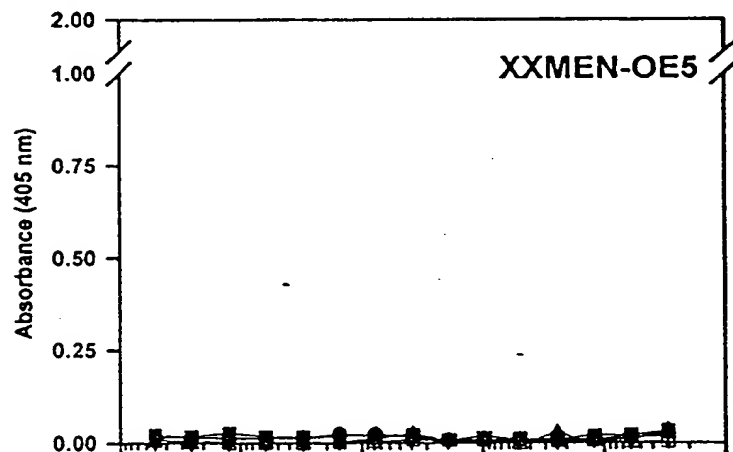
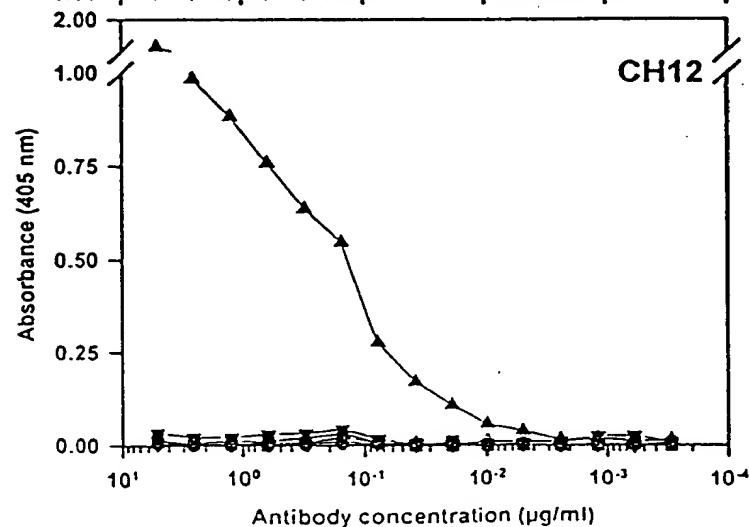
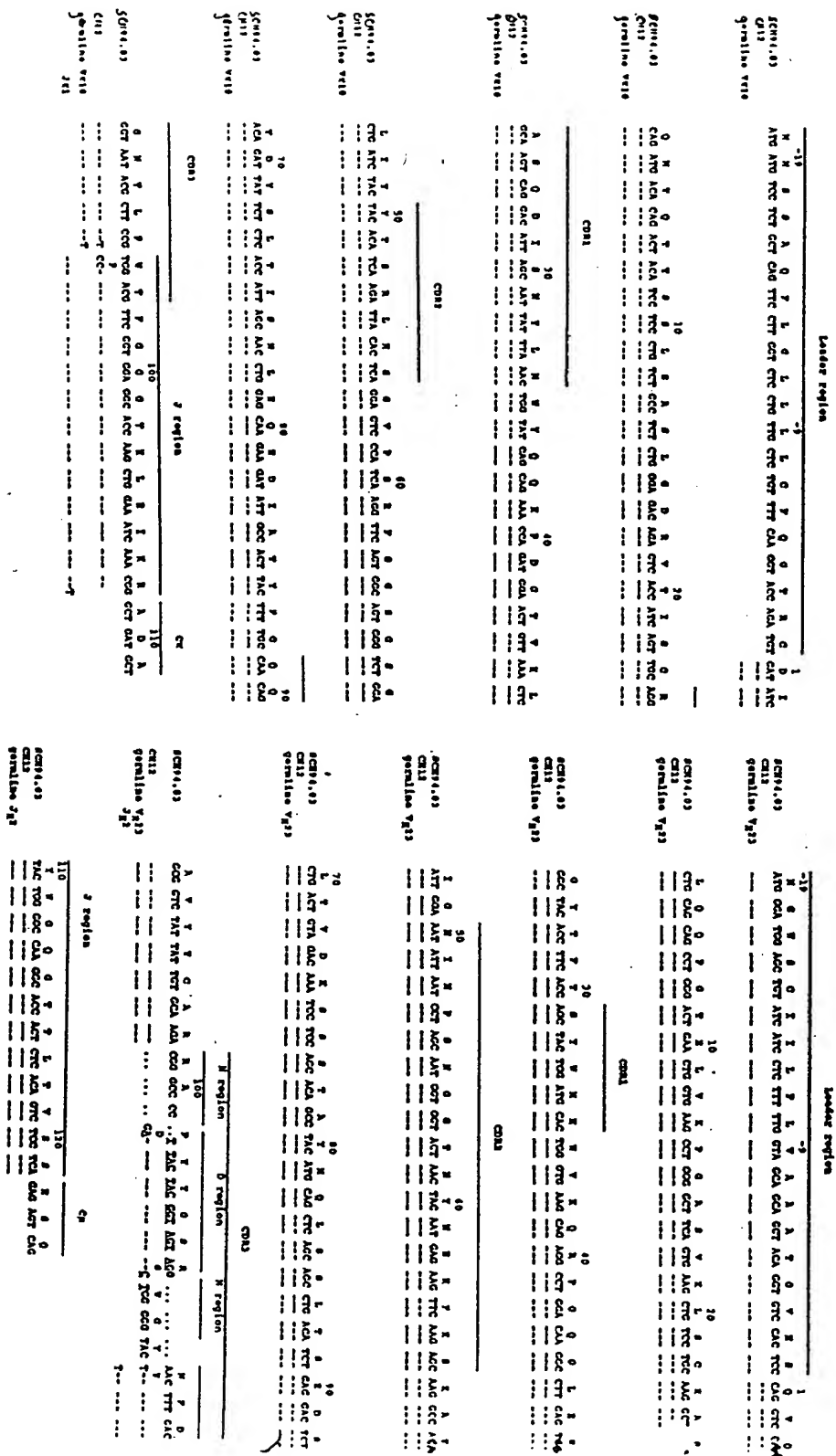


Fig. 10C



[illegible]

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Figure 12

Leader Peptide	
AI/AA OI	<p>-19 M G W R W I P L F L L S G T A G V H C Q Q V Q L Q Q Q S Q G P ATG GGA TGG AGA TGG ATC TTG CTT TTC CTC CTG TCA GGA ACT GCA GGT GTC CAT TGC CAG GTT CAG CTG CAG CAG TCT GGA CTT</p>
AI/AA OI	<p>10 E L V R P Q A L V R I S C K A S G Y T F T S Y D I N N W V GAG CTG GTG AAG CCT GGG GCT TTA GTG AAG ATA TCC TGC AAG GCT TCT GGT TAC ACC TTC ACA AGC TAC GAT ATA AAC TGG GTG</p>
AI/AA OI	<p>40 K Q R P Q Q G L E W I G W I Y P G D G S T K Y N E K F K AAG CAG AAG CCT GGA CAG GGA CTT GAG TGG ATT GGA TGG ATT TAT CCT GGA GAT GGT AGT ACT AAG TAC AAT GAG AAA TTC AAG</p>
AI/AA OI	<p>70 G K A T L T A A D K S S S T A Y M Q L S S L T S E N S A V GGC AAG GCC ACA CTG ACT GCA GAC AAA TCC TCC AGC ACA GCC TAC ATG CAG CTC AGC AGC CTG ACT TCT GAG AAC TCT GCA GTC</p>
AI/AA OI	<p>100 Y F C A R G A R F Y W Y F D V W G A G T T V T V S S TAT TTC TGT GCA AGA GGG GCC AGG TTC TAC TGG TAC TTC GAT GTC TGG GGC GCA GGG ACC ACG GTC ACC GTT TCC TCA GAG AGT</p>

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Figure 13

		Leader Peptide																			
		-19	A	V	L	G	L	L	P	C	L	V	T	P	S	C	V	L	S	+1	
gemline VH101	M	ATG	GCT	GTG	TTA	GGG	CTG	CTC	TTC	TGC	CTA	GTG	ACA	TTC	CCA	AGC	GGT	GTG	CTA	TCC	CAG
O4		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HNR-1		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DZ3		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		CDR1																			
gemline VH101	10	Q	L	V	Q	P	S	Q	S	L	S	I	T	C	T	V	S	G	F	S	L
O4		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HNR-1		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DZ3		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		CDR2																			
gemline VH101	40	R	Q	S	P	G	K	Q	L	B	W	L	Q	V	I	W	S	G	Q	S	T
O4		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HNR-1		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DZ3		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		CDR3																			
gemline VH101	70	R	L	S	I	S	K	D	N	S	K	S	Q	V	F	K	M	N	S	L	Q
O4		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HNR-1		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DZ3		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		J region																			
gemline VH101	100	Y	C	A	R																
O4		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HNR-1		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DZ3		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		CDR3																			
gemline VH101	100	N	R	Q	R	Y	N														
O4		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HNR-1		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DZ3		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		CDR3																			
gemline VH101	100	D	C	Q	S	R	Q														
O4		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HNR-1		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DZ3		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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Figure 14

		Leader Peptide	
germline V1 A2B5	-19	M K L W L N W V F L L T L L L L H G I Q C E V K L V B S G G	
		ATG AAG TTG TGG TTA AAC TGG GTT TTT CTT TTA ACA CTT TTA CAT GGT ATC CAG TGT GAG GTG AAG CTG GTG GAA TCT GGA GGA	
germline V1 A2B5	10	G L V Q P G G S L R L S C A T S G F T F T C ACC TTC AGT GAT TTC TAC ATG GAG TGG GTC	
		GCC TTG GTA CAG CCT GGG GGT TCT CTG AGA CTC TCC TGT GCA ACT TCT GGG TTC ACC TTC AGT GAT TTC TAC ATG GAG TGG GTC	
germline V1 A2B5	40	R Q P P Q K R L B W I A A S R N K A A N D Y T T T B R A Y S A S	
		COC CAG CCT CCA GGG AAG AGA CTG GAG TGG ATT GCT GCA AGT AGA AAC AAA GCT AAT GAT TAT ACA ACA GAG TAC AGT GCA TCT	
germline V1 A2B5	70	Y K Q R F I V S R D T S Q S I L Y L Q Q M N A L R A B A A	
		GTG AAG GGT CCG TTC ATC GTC TCC AGA GAC ACT TCC CAA AGC ATC CTC TAC CTT CAG ATG AAT GCC CTG AGA GCT GAG GAC ACT	
germline V1 A2B5	100	A I Y Y C A R D A R Q L G L P A W F A Y W G Q Q T L V T	
		GCC ATT TAT TAC TGT GCA AGA GAT GCA C GCG TGG TTT GCT TAC TGG GGC CAA GGG ACT CTG GTC ACT	
		J region	
germline JH3 A2B5	V S A	ATC TCT GCA	

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Figure 15

[illegible][illegible]

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Leader Peptide

gemline Vκ41 M D M R A P A Q I F G F L L L L F Q G T R C D I Q M T Q  
 HNK-1 ATG GAC ATG AAG GCT CCT GCA CAG ATT TTT GGC TTC TTG TTG CTC TTG TTT CAA GGT ACC AGA TGT GAC ATC CAG ATG ACC CAG  
 MOPC41 -----

CDR1

gemline Vκ41 S P S S L S A S L G B R V S L T C R A S Q D I G S S L N  
 HNK-1 TCT CCA TCC TCC TTA TCT GCC TCT CTG GGA GAA AGA GTC AGT CTC ACT TGT CGG GCA AGT CAG GAC ATT GGT AGT AOC TTA AAC  
 MOPC41 -----

CDR2

gemline Vκ41 W L Q Q B P D G T I K R L I Y A T S S L D S G V P K R F  
 HNK-1 TGG CTT CAG CAG GAA CCA GAT GGA ACT ATT AAA CGC CTG ATC TAC GCC ACA TCC AGT TTA GAT TCT GGT GTC CCC AAA AAG TTC  
 MOPC41 -----

CDR3

gemline Vκ41 S G S R S S G S D Y S L T I S S L B S B D F V D Y Y C L Q  
 HNK-1 AOT GGC AOT AAG TCT GGG TCA GAT TAT TCT CTC ACC ATC AGC AGC CTT GAG TCT GAA GAT TTT GTA GAC TAT TAC TGT CTA CAA  
 MOPC41 -----

CDR3

J region

C region

gemline Vκ41 Y A S S P Y T F G G T K L B I K R  
 HNK-1 TAT GCT AOT TCT CCT TAC ACG TTC GGA GGG GGG ACC AAG CTG GAA ATA AAA CGG GCT GAT GCT TCA  
 MOPC41 -----

Figure 16

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Figure 17

		Leader Peptide																			
						+1															
A2B5	M B S Q I Q V F V F V F L W L S G V D G D I I V M T Q S H																				
A2B5	ATG GAG TCA CAG ATT CAG GTC TTT GTA TTC GTG TTT CTC TGG TTT TCT GGT GTT GAC GGA GAC ATT GTG ATG ACC CAG TCT CAC																				
		CDR1																			
A2B5	K F M S T S V G D R V S I T C K A S Q D V S T A V A W Y																				
A2B5	AAA TTC ATG TCC ACT TCA GTA GGA GAC AGG GTC AGC ATC ACC TCC AAG GCC AGT CAG GAT GTG AGT ACT GCT GTA GCC TGG TAT																				
		CDR2																			
A2B5	Q Q K P G Q S P K L L I Y S A S Y R Y T G V P D R F T G																				
A2B5	CAG CAG AAA CCA GGA CAA TCT CCT AAA GTA CTG ATT TAC TCG GCA TCC TAC CCG TAC ACT GGA GTC CCT GAT CCG TTC ACT GGC																				
		CDR3																			
		J region																			
		C region																			
gemline J <sub>α5</sub>	T T P L T F G A G T K L B L K R																				
A2B5	CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CCG GCT GAT GCT TCA																				
		0																			
A2B5	ACT ACT CCG																				

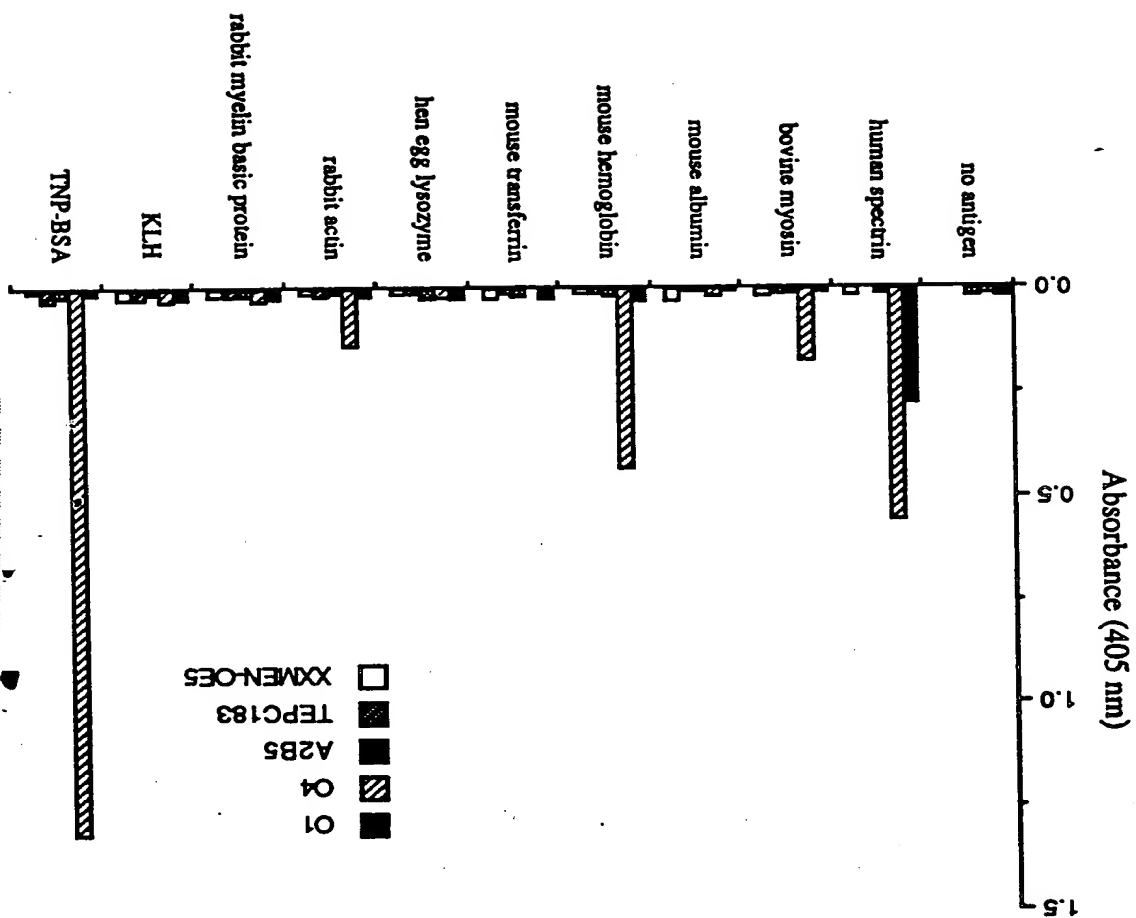


Figure 18